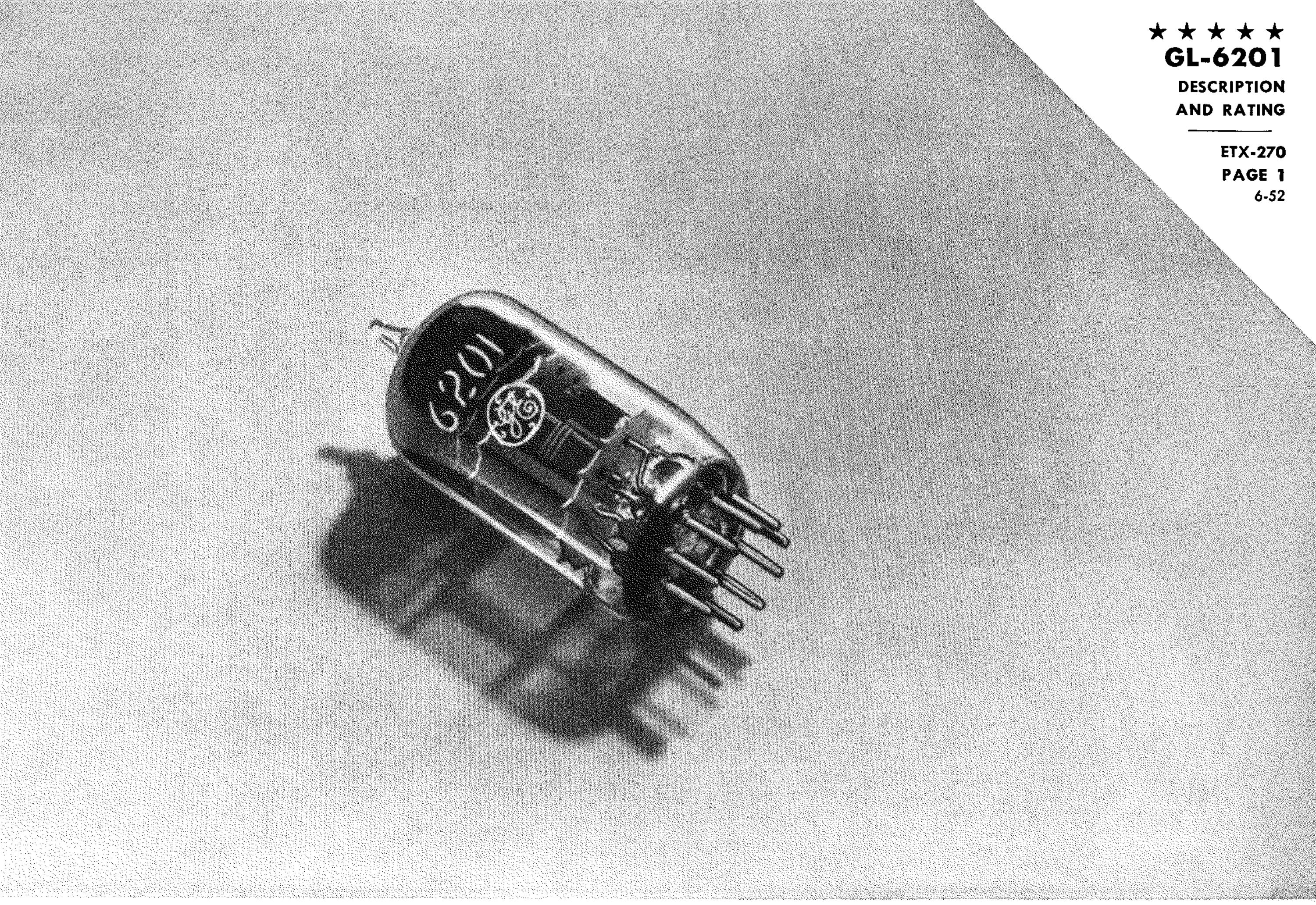


TWIN TRIODE

DESCRIPTION

The GL-6201 is a miniature twin triode designed for use as a grounded-grid amplifier or as a frequency converter in very-high-frequency applications. The tube is specially designed to assure dependable life and reliable service under the exacting conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength and a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential			
Heater Voltage (A-c or D-c)	6.3	12.6	Volts
Heater Current	0.3	0.15	Ampere
Direct Interelectrode Capacitances	**With Shield***	**Without Shield**	
Grid to Plate (Each Section)	1.6	1.6	uuf
Input (Each Section)	2.5	2.3	uuf
Output (Section 1)	1.2	0.4	uuf
Output (Section 2)	1.3	0.38	uuf
Heater to Cathode (Each Section)	2.8	2.8	uuf
Grounded-Grid Operation	**With Shield†**	**Without Shield**	
Plate to Cathode (Section 1)	0.18	0.2	uuf
Plate to Cathode (Section 2)	0.2	0.24	uuf
Input (Each Section)	5.0	5.0	uuf
Output (Section 1)	2.7	1.9	uuf
Output (Section 2)	2.7	1.8	uuf

Electronic TUBE

TECHNICAL INFORMATION (CONT'D)

Mechanical Data

Mounting Position—Any
Envelope—T-6½ Glass
Base—Small Button 9-Pin, E9-1

MAXIMUM RATINGS

Electrical—Design Center Values—Each Section

Plate Voltage	300	Volts
Negative D-c Grid Voltage	50	Volts
Plate Dissipation	2.5	Watts
Heater-Cathode Voltage	90	Volts
Mechanical		
Peak Impact Acceleration in Any Direction	600	G

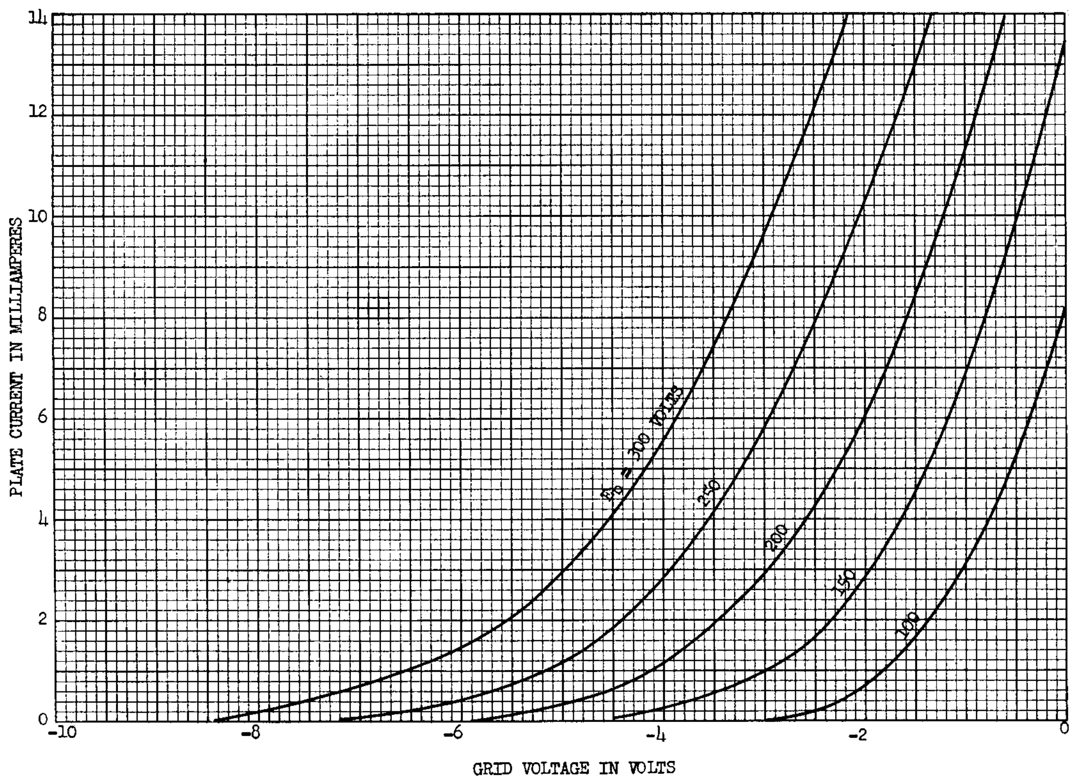
CHARACTERISTICS AND TYPICAL OPERATION

Class A_1 Amplifier—Each Section

Plate Voltage	100	250	Volts
Cathode Bias Resistor	270	200	Ohms
Amplification Factor	57	60	
Plate Resistance, approximate	14,300	10,900	Ohms
Transconductance	4000	5500	Micromhos
Plate Current	3.3	10	Milliamperes
Grid Voltage, approximate for I_b = 10 Microamperes	−5	−12	Volts

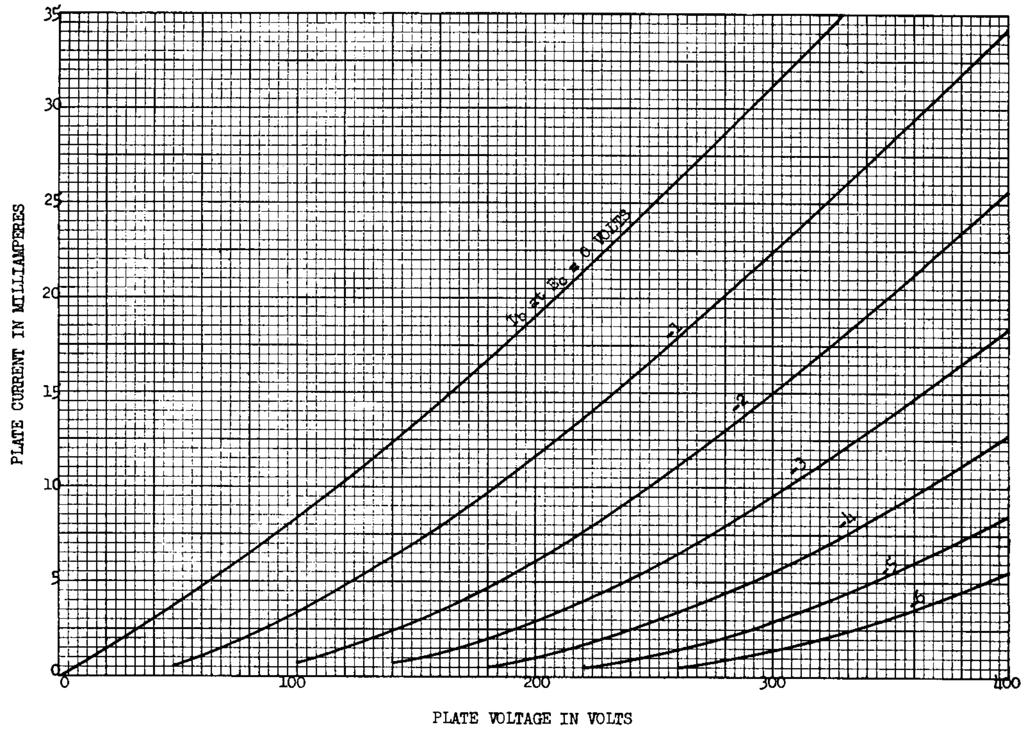
* With external shield No. 315 connected to cathode of section under test.
† With external shield No. 315 connected to grid of section under test.

AVERAGE CHARACTERISTICS (EACH SECTION)



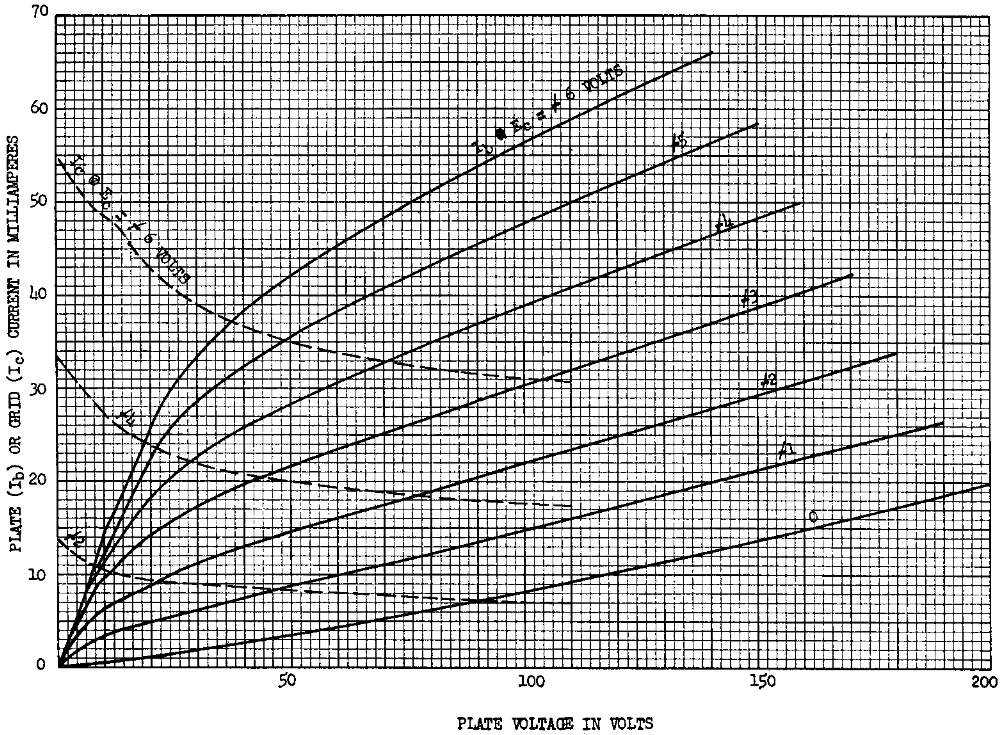
K-69087-72A523 5-9-52

AVERAGE PLATE CHARACTERISTICS (EACH SECTION)



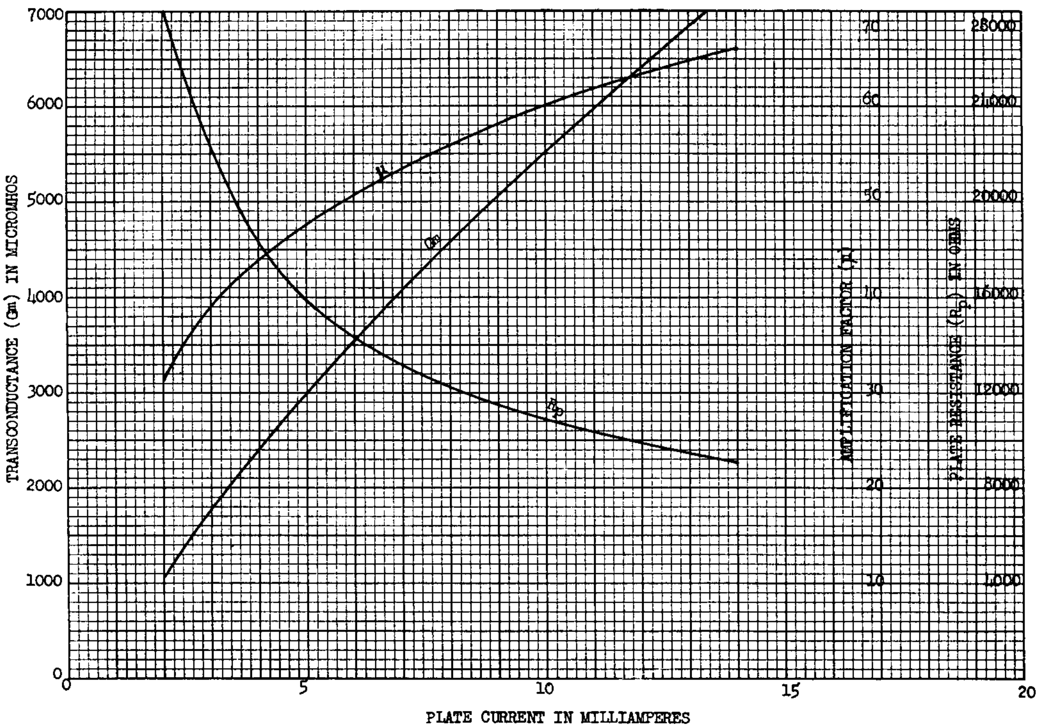
K-69087-72A525 4-9-52

AVERAGE PLATE CHARACTERISTICS (EACH SECTION)



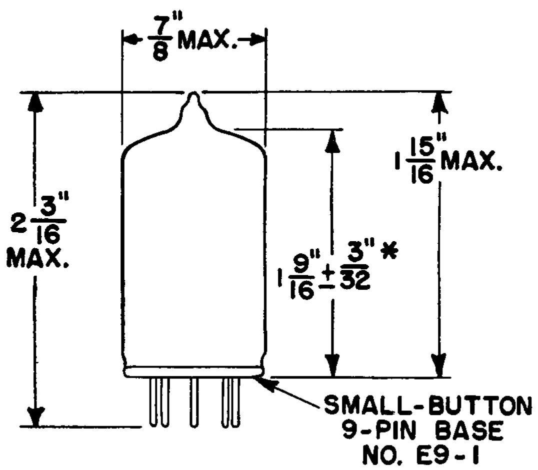
K-69087-72A526 4-9-52

AVERAGE CHARACTERISTICS
(EACH SECTION)
$E_f = 12.6$ VOLTS
PLATE VOLTAGE = 250 VOLTS



K-69087-72A524 4-9-52

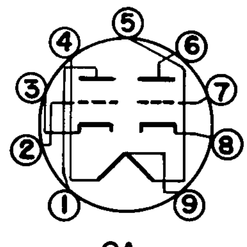
OUTLINE



*MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY RING GAGE OF 7/16" I.D.

N-15155AZ

BASING DIAGRAM



9A

PIN 1: PLATE (SECTION NO. 2)
PIN 2: GRID (SECTION NO. 2)
PIN 3: CATHODE (SECTION NO. 2)
PIN 4: HEATER
PIN 5: HEATER
PIN 6: PLATE (SECTION NO. 1)
PIN 7: GRID (SECTION NO. 1)
PIN 8: CATHODE (SECTION NO. 1)
PIN 9: HEATER CENTER-TAP

4-3-52

Tube Department
GENERAL ELECTRIC
Schenectady, N. Y.

6-52 (25M)